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**(54) CORROSION
RESISTANT IRON PLATING
FILM AND PLATING
METHOD**

(57) Abstract:

PROBLEM TO BE SOLVED: To provide an iron plating film and a plating method excellent in corrosion resistance, especially resistance against acid and which can be preferably used as a reinforcing film for aluminum or aluminum alloy.

SOLUTION: A plating bath consisting of a soln. containing iron ion and urea is used to form an iron plating film containing 0.02 to 0.5wt.% nitrogen on the surface of a body comprising aluminum or aluminum alloy by an electric reducing method. By incorporating nitrogen into the iron plating film, the nitrogen-contg. film acts as an alkali against the acid which

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is in contact with the film or intrudes into the film and the film neutralizes the acid. Thus, the corrosion resistance, especially acid resistance can be improved.

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